

L760/940-04A Bi-color LED for medical analysis

Bi-color LED of L760/940-04A consists of DDH structure AlGaAs and GaAs LEDs mounted on a lead frame with a clear epoxy lens.

On forward bias, it emits a band of two wavelengths, which peaks 760nm and 940nm at anode common.

†Specifications

1)Product No.	Bi-color LED	Outer Dimension
2)type No.	L760/940-04A	
3)Chip		
(1)Chip material	AlGaAs	
(2)Peak wavelength	760nm and 940nm typ.	
4)Package		
(1)type	Ø5 mm clear molding	
(2)Resin material	Epoxy resin	
(3)Lead frame	Soldered	

†Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value		Unit	Ambient Temperature
		760nm	940nm		
Power Dissipation	PD	200	140	mW	Ta=25 °C
Forward Current	IF	100	100	mA	Ta=25 °C
Reverse Voltage	VR	10		V	Ta=25 °C
Operating Temperature	TOPR	-30~+85		°C	
Storage Temperature	TSTG	-30~+100		°C	
Soldering Temperature	TSOL	260		°C	

†Electro-Optical Characteristics (Ta=25 °C)

Item	Symbol	Condition	Minimum		Typical		Maximum		Unit
			760nm	940nm	760nm	940nm	760nm	940nm	
Forward Voltage	VF	IF=50mA			1.85	1.30	2.00	1.45	V
Reverse Current	IR	VR=5V					10		uA
Total Radiation Power	Po	IF=50mA	8.0	8.0	15.0	14.0			mW
Peak Wavelength	λP	IF=50mA	750	930	760	940	780	960	nm
Half Width	Δ	IF=50mA			30	50			nm
Viewing Half Angle		IF=50mA			±20°				deg.

‡Total Radiated Power is measured by Photodyne#500.

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